

**AMENDMENT**

Serial No.: 10/774,187

Applicant: Wright, et al.

Examiner: Chen, Vivian

Filed: February 5, 2004

Group: 1773

Title: FLUORINATED POLYMER AND AMINE RESIN COMPOSITIONS  
AND PRODUCTS FORMED THEREFROM

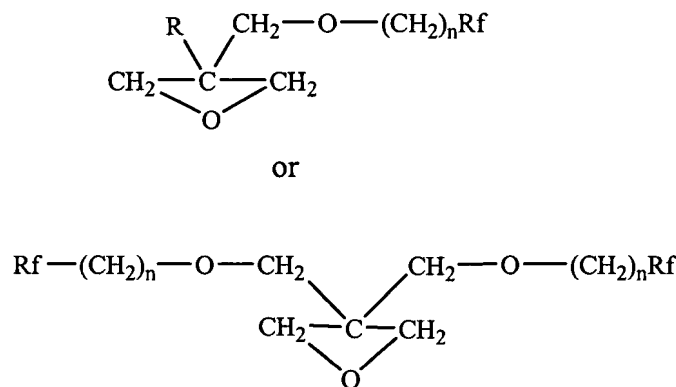
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**Listing of Claims:**

Please amend the claims as follows:

1. (currently amended) A laminate according to claim 8 wherein the oxetane is selected from



wherein n is an integer from 1 to 5, Rf is independently on each monomer a linear or branched alkyl group of from about 1 to about 20 carbon atoms being at least 25% perfluorinated with the H atoms of said Rf being replaced by F, and R is H or an alkyl of 1 to 6 carbon atoms.

2. (original) The laminate of claim 1 wherein the polymer and the melamine resin are co-reactable.
3. (original) The laminate of claim 2 wherein the polymer and the melamine resin are crosslinkable.
4. (original) The laminate of claim 1 wherein the melamine resin is derived from reaction with formaldehyde.
5. (original) The laminate of claim 1 wherein the melamine resin is at least partially alkylated.

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6. (original) The laminate of claim 5 wherein the melamine resin is at least partially alkylated by reaction with one or more C1-C4 alcohols.
7. (original) The laminate of claim 6 wherein the melamine resin is at least partially alkylated by reaction with one or more alcohols selected from the group consisting of n-butanol, n-propanol, isopropanol, ethanol, and methanol.
8. (previously presented) A laminate comprising a layer derived from reactive ingredients comprising:
- (a) a polymer comprising at least one polyester segment and at least one polyether segment comprising monomeric units derived from oxetane and a pendent fluorinated group comprising:
    - (i) a fluorocarbon moiety, and
    - (ii) an ether moiety, wherein the fluorocarbon moiety is linked to the polyether segment via the ether moiety; and
  - (b) a melamine resin.
9. (original) The laminate of claim 8 wherein the monomeric units derived from oxetane comprise the pendent fluorinated group having a formula:  $-\text{CH}_2-\text{O}-(\text{CH}_2)_n-\text{R}_f$ , wherein said  $\text{R}_f$  group is a linear or branched alkyl group of 1 to 20 carbon atoms with a minimum of 25 percent of the hydrogens of said alkyl groups being replaced by F, or said  $\text{R}_f$  group being an oxaperfluorinated or perfluorinated polyether having from 4 to 60 carbon atoms, and n being from 1 to 3.
10. (original) The laminate of claim 9, wherein said  $\text{R}_f$  group is a linear or branched perfluorinated alkyl group of 1 to 20 carbon atoms.
11. (original) The laminate of claim 8, wherein polyether segment comprises monomeric units derived from tetrahydrofuran.

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12. (original) The laminate of claim 1 comprising a substrate wherein the layer is disposed on the substrate.

13. (original) The laminate of claim 1 wherein the substrate is thermoformable.

14. (previously presented) A method for forming a laminate comprising steps of:  
providing a composition comprising reactive ingredients of:

(a) a polymer comprising at least one polyester segment and  
at least one polyether segment, wherein the polyether segment comprises monomeric  
units derived from oxetane and a pendent fluorinated group comprising:

(i) a fluorocarbon moiety, and

(ii) an ether moiety, wherein the fluorocarbon moiety is linked to the polyether  
segment via the ether moiety; and

(b) a melamine resin; and

incorporating the composition into a laminate.

15. (original) The method of claim 14 where in the step of incorporating, (a) and (b) are reacted to form a crosslinked composition

16. (previously presented) A reaction product derived from reactive ingredients comprising:

(a) a polymer comprising at least one polyester segment and  
at least one polyether segment comprising monomeric units derived from oxetane,  
wherein the polyether segment comprises a pendent fluorinated group comprising:

(i) a fluorocarbon moiety, and

(ii) an ether moiety, wherein the fluorocarbon moiety is linked to the polyether  
segment via the ether moiety; and

(b) a melamine resin.

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17. (previously presented) A method for preparing a multilayered article comprising steps of:  
providing a composition comprising reactive ingredients of:

(a) a polymer comprising at least one polyester segment and  
at least one polyether segment comprising units derived from oxetane, wherein the  
polyether segment comprises a pendent fluorinated group comprising:

(i) a fluorocarbon moiety, and

(ii) an ether moiety, wherein the fluorocarbon moiety is linked to the polyether  
segment via the ether moiety; and

(b) a melamine resin; and

using the composition to form a layer on a substrate.

18. (original) The method according to claim 17, wherein the substrate comprises a cellulosic  
product, fiber, synthetic polymer, metal, or ceramic.

19. (original) The method according to claim 17, wherein the substrate includes a layer of  
plasticized vinyl chloride polymer.

20. (original) The method according to claim 17, performed to make a wallcovering.

21. (original) The method according to claim 20, performed to make a dry erase surface.

22. (original) The method of claim 17 where in the step of using the composition to form a layer  
on a substrate comprises heating the composition to at least about 150°F.